# USCMS Engineer Status Report for May 2004

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## 1 Work Performed This Month

1. DC04

Most of the time were spent for DC04 during this month. There were a lot of things happened with the DC04. Some of the activities I involved are:

(1). Worked with Pablo Garcia Abia on TMDB triggers to make sure the file numbers under various states were accurate for FNAL. (Note: Pablo's Oracle triggers brought down the TMDB and stopped to use later); (2). Oracle TMDB was malfunctioning—it was caused by Pablo's trigger program. I wasted some time to check if the transfer went wrong; (3). I spent some time to debug issues with migrating files from POOL to tape, later srmsp error; (4). I further modified the transfer script to handle the tape issues; (5). Working with Lassi, I also spent some time to create darball and test the performance of POOL 1.6.2; (6). I spent some time to debug the bottleneck of RLS for downloading POOL Metadata. Working with Lassi, the performance was able to improve 100 times; (7). There was dCache/Enstore problem: I spent some time to find out the access frequency of transfer agent on dCache. Later Michael found there was pnfs issue causing the slowness of overall transfer. (8). Under the request of Lassi, I modified the transfer script to use the new logic to fetch files—new files first, old files later; (9). Under the request and suggestions of Stephan Wynhoff, I wrote a script to parse out the dataset name and owner name of DC04 data—later it can distinguish the dataset name and stream name. (10). Working with the Tier2 people (Conrad, Suresh, Dimitri and Craig, etc.) and Ian to distribute DC04 files to Tier2 using "pull" mode. Wrote the instructions and helped solve various problems; (11). Working with Lisa, David and Joe to solve some lo-

cal issues on the transfer machine, mysql, disk fillup, etc; (12). Helped solve some MySQL account—only allow user to read on DC04 MySQL Database;

2. Helped Joe and Tanya to move test VOMS installation to a different machine due to disk problem on shahzad;

3. Worked with Natasha, Bockjoo, Craig, Alain Roy and Dane to test and distribute the new KCA certificate and signing policy. It was first put into the DPE pacman cache, then added by Alain to the new version of VDT.

# 2 Status of Deliverables

1. Some further modification on the FNAL T1 Transfer Agent scripts to fit the need of transfer; 2. Instructions on DC04 data distribution from T1 to T2;

# 3 Plans For Next Month

I plan to do the following during the month of May:

1. Summarize the experience of DC04 file transfer; 2. Work with the Testbeam people to write a script to transfer files from cern testbeam machine to FNAL dCache; 3. If time permit, start to work on the configuration monitoring use case;

# 4 Longer Term Plans

No. Need talk with the management.

# 5 Resources Needed

No.

# 6 Links To Supporting Documentation

- 1. CMS DC04 web page:

- http://www.uscms.org/s&c/dc04/

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- 2. T1 to T2 data distributions:
- (1).http://computing.fnal.gov/cms/yujun/DC04/doc/pulldatafromT1.txt
- (2).http://computing.fnal.gov/cms/yujun/DC04/doc/srmcp.txt
- (3).http://computing.fnal.gov/cms/yujun/DC04/doc/pool_dataset.list